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## In The Claims.

Please amend the claims as follows. This claim set is to replace all prior versions.

- 1. (Original) A stably transformed duckweed plant comprising a heterologous nucleic acid of interest incorporated in its genome.
- 2. (Original) The stably transformed duckweed plant according to Claim 1, wherein said duckweed plant comprises fewer than 5 copies of said heterologous nucleic acid of interest.
- 3. (Original) The stably transformed duckweed plant according to Claim 1, wherein said duckweed plant is selected from the group consisting of the genus *Spirodela*, genus *Wolffia*, genus *Wolfiella*, and genus *Lemna*.
- 4. (Original) The stably transformed duckweed plant according to Claim 3, wherein said duckweed plant is selected from the genus *Lemna*.
- 5. (Currently amended) The stably transformed duckweed plant according to Claim 4, wherein said duckweed plant is selected from the group consisting of a species of Lemna minor, a species of Lemna miniscula, and a species of Lemna gibba.
- 6. (Currently amended) The stably transformed duckweed plant according to Claim 5, wherein said duckweed plant is from a species of Lemna minor.
- 7. (Original) The stably transformed duckweed plant according to Claim 1, wherein said nucleic acid comprises at least one expression cassette comprising a gene which confers resistance to a selection agent.
- 8. (Original) The stably transformed duckweed plant according to Claim 7, wherein said gene which confers resistance to a selection agent is selected from the group consisting of *neo*, *bar*, *pat*, *ALS*, *HPH*, *HYG*, *EPSP* and *Hml*.

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- 9. (Original) The stably transformed duckweed plant according to Claim 1, wherein said nucleic acid comprises two genes of interest.
- 10. (Original) The stably transformed duckweed plant according to Claim 1, wherein said nucleic acid encodes a protein or peptide selected from the group consisting of insulin, growth hormone,  $\alpha$ -interferon,  $\beta$ -glucocerebrosidase, retinoblastoma protein, p53 protein, angiostatin, leptin, and serum albumin.
- 11. (Original) The stably transformed duckweed plant according to Claim 1, wherein said nucleic acid encodes at least one protein or peptide subunit of a multimeric protein selected from the group consisting of hemoglobin, collagen, P450 oxidase, and a monoclonal antibody.
- 12. (Original) The stably transformed duckweed plant according to Claim 1, wherein said nucleic acid encodes a secreted protein or peptide.
- 13. (Original) A stably transformed duckweed plant tissue comprising a heterologous nucleic acid of interest incorporated in its genome.
- 14. (Original) The stably transformed duckweed plant tissue according to Claim 13, wherein said plant tissue is meristematic tissue.
- 15. (Original) The stably transformed duckweed plant tissue according to Claim 13, wherein said plant tissue is frond tissue.
- 16. (Original) The stably transformed duckweed plant tissue according to Claim 13, wherein said plant tissue is callus tissue.
- 17. (Original) The stably transformed duckweed plant tissue according to Claim 16, wherein said plant tissue is Type I callus tissue.

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18. (Original) A duckweed tissue culture comprising the stably transformed duckweed plant tissue of Claim 13.

- 19. (Original) A stably transformed duckweed cell comprising a heterologous nucleic acid of interest incorporated in its genome.
- 20. (Original) A stably transformed duckweed plant comprising a chimeric nucleic acid of interest incorporated in its genome, wherein said chimeric nucleic acid comprises a coding sequence operably linked to a transcription initiation region that is heterologous to said coding sequence.
- 21. (Original) The stably transformed duckweed plant according to Claim 20, wherein said chimeric nucleic acid comprises a duckweed coding sequence operably linked to a transcription initiation region that is heterologous to said coding sequence.
- 22. (Original) The stably transformed duckweed plant accordingly to Claim 20, wherein said chimeric nucleic acid is flanked by T-DNA border sequences.
- 23. (Original) The stably transformed duckweed plant according to Claim 20, wherein said duckweed plant comprises fewer than 5 copies of said chimeric nucleic acid.
- 24. (Original) The stably transformed duckweed plant according to Claim 20, wherein said duckweed plant is selected from the group consisting of the genus *Spirodela*, genus *Wolffia*, genus *Wolfiella*, and genus *Lemna*.
- 25. (Original) The stably transformed duckweed plant according to Claim 24, wherein said duckweed plant is selected from the genus *Lemna*.
- 26. (Currently amended) The stably transformed duckweed plant according to Claim 25, wherein said duckweed plant is selected from the group consisting of a species of Lemna minor, a species of Lemna miniscula, and a species of Lemna gibba.

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- 27. (Currently amended) The stably transformed duckweed plant according to Claim 26, wherein said duckweed plant is from a species of Lemna minor.
- 28. (Original) The stably transformed duckweed plant according to Claim 20, wherein said chimeric nucleic acid of interest comprises at least one expression cassette comprising a gene which confers resistance to a selection agent.
- 29. (Original) The stably transformed duckweed plant according to Claim 28, wherein said gene which confers resistance to a selection agent is selected from the group consisting of *neo*, *bar*, *pat*, *ALS*, *HPH*, *HYG*, *EPSP* and *Hml*.
- 30. (Original) The stably transformed duckweed plant according to Claim 20, wherein said chimeric nucleic acid comprises two genes of interest.
- 31. (Original) The stably transformed duckweed plant according to Claim 20, wherein said chimeric nucleic acid encodes a protein or peptide selected from the group consisting of insulin, growth hormone, α-interferon, β-glucocerebrosidase, retinoblastoma protein, p53 protein, angiostatin, leptin, and serum albumin.
- 32. (Original) The stably transformed duckweed plant according to Claim 20, wherein said chimeric nucleic acid encodes at least one protein or peptide subunit of a multimeric protein selected from the group consisting of hemoglobin, collagen, P450 oxidase, and a monoclonal antibody.
- 33. (Original) The stably transformed duckweed plant according to Claim 20, wherein said chimeric nucleic acid encodes a secreted protein or peptide.
- 34. (Original) A stably transformed duckweed plant tissue comprising a chimeric nucleic acid of interest incorporated in its genome, wherein said chimeric nucleic acid comprises a coding sequence operably linked to a transcription initiation region that is heterologous to said coding sequence.

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- 35. (Original) The stably transformed duckweed plant tissue according to Claim 34, wherein said plant tissue is meristematic tissue.
- 36. (Original) The stably transformed duckweed plant tissue according to Claim 34, wherein said plant tissue is frond tissue.
- 37. (Original) The stably transformed duckweed plant tissue according to Claim 34, wherein said plant tissue is callus tissue.
- 38. (Original) The stably transformed duckweed plant tissue according to Claim 37, wherein said plant tissue is Type I callus tissue.
- 39. (Original) A duckweed tissue culture comprising the stably transformed duckweed plant tissue of Claim 34.
- 40. (Original) A stably transformed duckweed cell comprising a chimeric nucleic acid of interest incorporated in its genome, wherein said chimeric nucleic acid comprises a coding sequence operably linked to a transcription initiation region that is heterologous to said coding sequence.